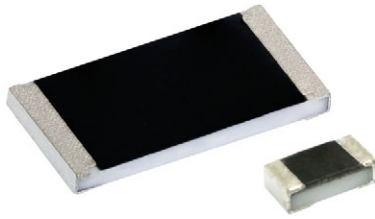


Lead (Pb)-Bearing Sulfur Resistant Thick Film Chip Resistors


**HALOGEN
FREE**

FEATURES

- Superior resistance against sulfur containing atmosphere, according to ASTM B809-95
- Stability at different environmental conditions $\Delta R/R \leq 1\%$ (1000 h rated power at 70 °C)
- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

LINKS TO ADDITIONAL RESOURCES



The lead (Pb)-bearing sulfur resistant, thick film chip resistors series is the perfect choice for most fields of harsh environment electronics operation, where lead (Pb)-bearing terminations are mandatory, and high reliability and stability are of major concern.

Typical applications include industrial and military applications which operate in harsh environment.

APPLICATIONS

- Industrial
- Military

TECHNICAL SPECIFICATIONS								
DESCRIPTION	RCA0402	RCA0603	RCA0805	RCA1206	RCA1210	RCA1218	RCA2010	RCA2512
Imperial size	0402	0603	0805	1206	1210	1218	2010	2512
Metric size code	RR1005M	RR1608M	RR2012M	RR3216M	RR3225M	RR3246M	RR5025M	RR6332M
Resistance range	1 Ω to 10 M Ω ; jumper (0 Ω)					1 Ω to 2.2 M Ω ; jumper (0 Ω)	1 Ω to 10 M Ω ; jumper (0 Ω)	
Resistance tolerance	$\pm 5\%$; $\pm 1\%$; $\pm 0.5\%$							
Temperature coefficient	± 200 ppm/K; ± 100 ppm/K; ± 50 ppm/K							
Rated dissipation, P_{70} ⁽¹⁾	0.063 W	0.10 W	0.125 W	0.25 W	0.5 W	1.0 W	0.75 W	1.0 W
Operating voltage, U_{max} , AC _{RMS} /DC	50 V	75 V	150 V	200 V	200 V	200 V	400 V	500 V
Permissible film temperature, t_F max. ⁽¹⁾	155 °C							
Operating temperature range	-55 °C to +155 °C							
Maximum resistance change at P_{70} for resistance range, $ \Delta R/R $ after: 1000 h	$\leq 1.0\%$							
Permissible voltage against ambient (insulation): 1 min, U_{ins}	75 V	100 V	200 V	300 V	300 V	300 V	300 V	300 V
Failure rate: FIT _{observed}	$\leq 0.1 \times 10^{-9}/h$							

Note

⁽¹⁾ Please refer to APPLICATION INFORMATION below

APPLICATION INFORMATION

When the resistor dissipates power, a temperature rise above the ambient temperature occurs, dependent on the thermal resistance of the assembled resistor together with the printed circuit board. The rated dissipation applies only if the permitted film temperature is not exceeded.

These resistors do not feature a limited lifetime when operated within the permissible limits. However, resistance value drift increasing over operating time may result in exceeding a limit acceptable to the specific application, thereby establishing a functional lifetime.



TEMPERATURE COEFFICIENT AND RESISTANCE RANGE				
TYPE / SIZE	TCR	TOLERANCE	RESISTANCE	E-SERIES
RCA0402	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 200 ppm/K	± 1 %	1.0 Ω to 9.76 Ω	E24; E96
	± 100 ppm/K	± 1 %	10 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 1.0 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 1.0 MΩ	E24; E96
	Jumper, $I_{max.} = 1.5 A$	≤ 20 mΩ	0 Ω	-
RCA0603	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 10 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 10 MΩ	E24; E96
	Jumper, $I_{max.} = 2.0 A$	≤ 20 mΩ	0 Ω	-
RCA0805	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 10 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 10 MΩ	E24; E96
	Jumper, $I_{max.} = 2.5 A$	≤ 20 mΩ	0 Ω	-
RCA1206	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 10 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 10 MΩ	E24; E96
	Jumper, $I_{max.} = 3.5 A$	≤ 20 mΩ	0 Ω	-
RCA1210	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 1.0 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 1.0 MΩ	E24; E96
	Jumper, $I_{max.} = 5.0 A$	≤ 20 mΩ	0 Ω	-
RCA1218	± 200 ppm/K	± 5 %	1.0 Ω to 2.2 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 2.2 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	100 Ω to 2.2 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 2.2 MΩ	E24; E96
	Jumper, $I_{max.} = 7.0 A$	≤ 20 mΩ	0 Ω	-
RCA2010	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 10 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 10 MΩ	E24; E96
	Jumper, $I_{max.} = 6.0 A$	≤ 20 mΩ	0 Ω	-
RCA2512	± 200 ppm/K	± 5 %	1.0 Ω to 10 MΩ	E24
	± 100 ppm/K	± 1 %	1.0 Ω to 10 MΩ	E24; E96
	± 100 ppm/K	± 0.5 %	10 Ω to 10 MΩ	E24; E96
	± 50 ppm/K	± 0.5 %; ± 1 %	100 Ω to 10 MΩ	E24; E96
	Jumper, $I_{max.} = 7.0 A$	≤ 20 mΩ	0 Ω	-

Note

- The temperature coefficient of resistance (TCR) is not specified for 0 Ω jumpers



PACKAGING						
TYPE / SIZE	CODE	QUANTITY	PACKAGING STYLE	WIDTH	PITCH	PACKAGING DIMENSIONS
RCA0402	TD = RT7	10 000	Paper tape according to IEC 60286-3, type 1a	8 mm	2 mm	Ø 180 mm / 7"
	TE = RF4	50 000				Ø 330 mm / 13"
RCA0603	TA = RT1	5000		8 mm	4 mm	Ø 180 mm / 7"
	TC = RT6	20 000				Ø 330 mm / 13"
RCA0805	TA = RT1	5000		8 mm	4 mm	Ø 180 mm / 7"
	TC = RT6	20 000				Ø 330 mm / 13"
RCA1206	TA = RT1	5000	8 mm	4 mm	Ø 180 mm / 7"	
	TC = RT6	20 000			Ø 330 mm / 13"	
RCA1210	TA = RT1	5000	8 mm	4 mm	Ø 180 mm / 7"	
	TC = RT6	20 000			Ø 330 mm / 13"	
RCA1218	TK = RT9	4000	Blister tape according to IEC 60286-3, type 2a	12 mm	4 mm	Ø 180 mm / 7"
RCA2010	TF = R02	4000		12 mm	4 mm	Ø 180 mm / 7"
RCA2512	TG = R67	2000		12 mm	8 mm	4 mm
	TH = R82	4000				

PART NUMBER AND PRODUCT DESCRIPTION

Part Number: RCA080510K0FKTA
 Part Number: RCA08050000ZSTC

R	C	A	0	8	0	5	1	0	K	0	F	K	T	A
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TYPE / SIZE	VALUE	TOLERANCE	TCR	PACKAGING
RCA0402 RCA0603 RCA0805 RCA1206 RCA1210 RCA1218 RCA2010 RCA2512	R = decimal K = thousand M = million 0000 = 0 Ω jumper	D = ± 0.5 % F = ± 1 % J = ± 5 % Z = jumper	H = ± 50 ppm/K K = ± 100 ppm/K N = ± 200 ppm/K S = jumper	TA, TC, TD, TE, TF, TG, TH, TK

Product Description: RCA0805 100 10K 1 % RT1
 Product Description: RCA0805 0R0 RT6

RCA0805	100	10K	1 %	RT1
TYPE / SIZE	TCR	RESISTANCE	TOLERANCE	PACKAGING
RCA0402 RCA0603 RCA0805 RCA1206 RCA1210 RCA1218 RCA2010 RCA2512	± 50 ppm/K ± 100 ppm/K ± 200 ppm/K	10R = 10 Ω 10K = 10 kΩ 1M = 1 MΩ 0R0 = jumper	± 0.5 % ± 1 % ± 5 %	RT1, RT6, RT7, RF4, R02, R67, R82, RT9



DESCRIPTION

Production is strictly controlled and follows an extensive set of instructions established for reproducibility. A cermet film layer and a glass-over are deposited on a high grade (Al₂O₃) ceramic substrate with its prepared inner contacts. A special laser is used to achieve the target value by smoothly fine trimming the resistive layer without damaging the ceramics. A special process is used to ensure resistor long term operation in harsh environment (sulfur atmosphere). The resistor elements are covered by a protective coating designed for electrical, mechanical and climatic protection. The terminations receive a SnPb layer on nickel plating.

The result of the determined production is verified by an extensive testing procedure on 100 % of the individual chip resistors. Only accepted products are laid directly into the tape in accordance with **IEC 60286-3 Type 1a and Type 2a** ⁽¹⁾.

ASSEMBLY

The resistors are suitable for processing on automatic SMD assembly systems. They are suitable for automatic soldering wave, reflow or vapor phase as shown in **IEC 61760-1** ⁽¹⁾. The encapsulation is resistant to all cleaning solvents commonly used in the electronics industry, including alcohols, esters and aqueous solutions. The suitability of conformal coatings, potting compounds and their processes, if applied, shall be qualified by appropriate means to ensure the long-term stability of the whole system.

The resistors with SnPb plating provides compatibility with lead (Pb)-free and lead (Pb)-containing soldering processes. Solderability is specified for 2 years after production or requalification. The permitted storage time is 20 years. The immunity of the plating against tin whisker growth has been proven under extensive testing.

MATERIALS

Vishay acknowledges the following systems for the regulation of hazardous substances:

- IEC 62474, Material Declaration for Products of and for the Electrotechnical Industry, with the list of declarable substances given therein ⁽²⁾
- The Global Automotive Declarable Substance List (GADSL) ⁽³⁾
- The REACH regulation (1907/2006/EC) and the related list of substances with very high concern (SVHC) ⁽⁴⁾ for its supply chain

Except for the intentionally added lead (Pb) in the termination finish, the products do not contain any of the banned substances as per IEC 62474, GADSL, or the SVHC list, see www.vishay.com/how/leadfree.

Vishay pursues the elimination of conflict minerals from its supply chain, see the Conflict Minerals Policy at www.vishay.com/doc?49037.

APPROVALS

The resistors are qualified according to AEC-Q200. Where applicable, the resistors are tested in accordance with **EN 140401-802** which refers to **EN 60115-1, EN 60115-8** and the variety of environmental test procedures of the **IEC 60068** ⁽¹⁾ series.

RELATED PRODUCTS

For more information about RoHS-compliant products with sulfur resistance, please refer to datasheet:

RCA e3 Sulfur Resistant Thick Film Chip Resistors
www.vishay.com/doc?20037

D/CRCW series is not designed for sulfur-containing environment applications.

For ordering D/CRCW lead (Pb)-bearing products, please refer to latest edition of datasheet:

www.vishay.com/doc?20008

For products with sulfur resistance, superior surge and pulse performance, please refer to datasheet:

RCA-IF e3, Pulse Proof Thick Film Chip Resistors
www.vishay.com/doc?20059

For products with sulfur resistance and high power rating, please refer to datasheet:

RCA-HP e3, Pulse Proof High Power Thick Film Chip Resistors

www.vishay.com/doc?20065

For more information about long termination, RoHS-compliant products with sulfur resistance, please refer to datasheet:

RCA-LS e3 Sulfur Resistant Long Side Termination Thick Film Chip Resistors

www.vishay.com/doc?20060

Notes

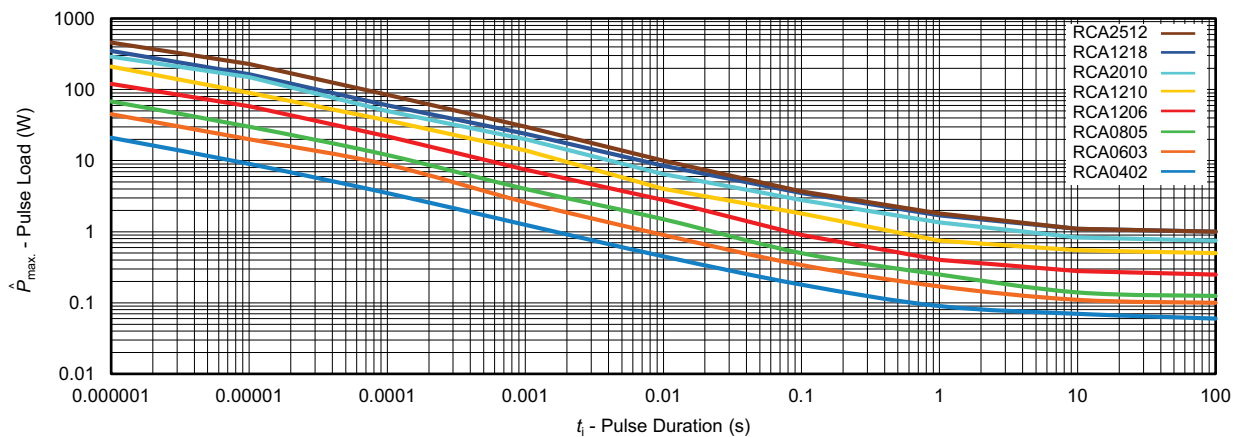
- ⁽¹⁾ The quoted IEC standards are also released as EN standards with the same number and identical contents
- ⁽²⁾ The IEC 62474 list of declarable substances is maintained in a dedicated database, which is available at <http://std.iec.ch/iec62474>
- ⁽³⁾ The Global Automotive Declarable Substance List (GADSL) is maintained by the American Chemistry Council and available at www.gadsl.org
- ⁽⁴⁾ The SVHC list is maintained by the European Chemical Agency (ECHA) and available at <http://echa.europa.eu/candidate-list-table>



FUNCTIONAL PERFORMANCE

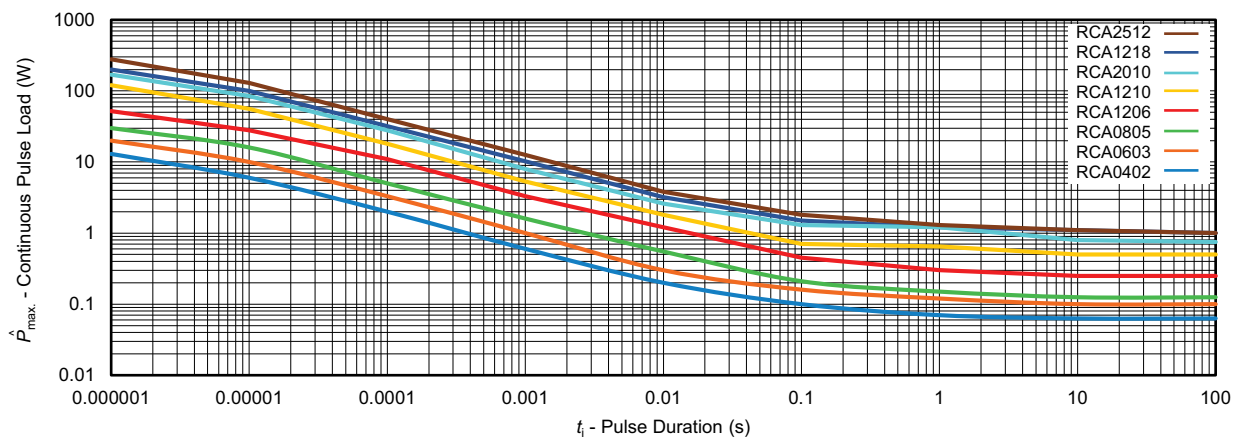
PERFORMANCE IN SULFUR-CONTAINING AMBIANCE		
TEST NAME	HUMID SULFUR VAPOR TEST	HUMID SULFUR VAPOR TEST (Accelerated)
Reference specification	ASTM B809-95	ASTM B809-95 accelerated conditions
Test conditions (temperature, humidity)	60 °C ± 2 °C 85 % ± 4 % RH	90 °C ± 2 °C 74 % ± 7 % RH
Aggressive agent	Sulfur (saturated vapor)	Sulfur (saturated vapor)
Failure criteria in VI under magnification	No silver sulfide growth at the interface between termination and protective overcoat. No signs of mechanical damage.	No silver sulfide growth at the interface between termination and protective overcoat. No signs of mechanical damage.
Failure criteria in electrical test	≤ (± 1 % R + 0.05 Ω)	≤ (± 1 % R + 0.05 Ω)
Time before failure	8000 h	1000 h

Single Pulse



Maximum pulse load, single pulse; applicable if $\bar{P} \rightarrow 0$ and $n < 1000$ and $\hat{U} = \hat{U}_{max}$; for permissible resistance change equivalent to 8000 h operation

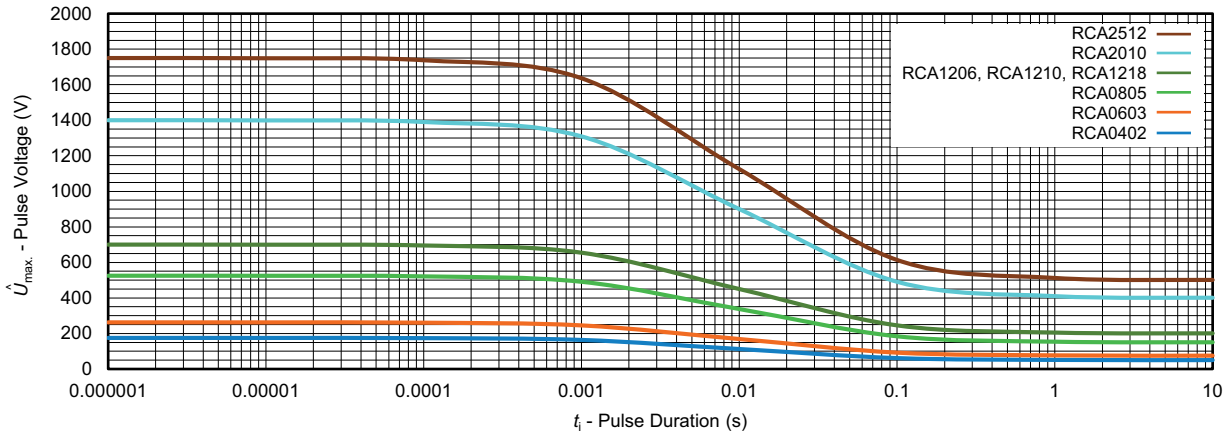
Continuous Pulse



Maximum pulse load, continuous pulses; applicable if $\bar{P} \leq P(i_{amb})$ and $\hat{U} = \hat{U}_{max}$; for permissible resistance change equivalent to 8000 h operation

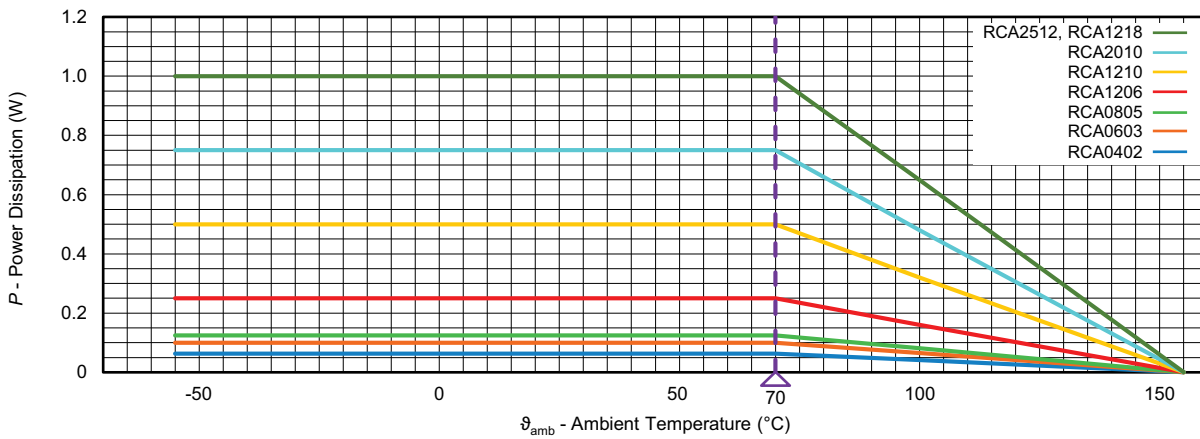


Pulse Voltage



Maximum pulse voltage, single and continuous pulses; applicable if $\hat{P} = \hat{P}_{max}$; for permissible resistance change equivalent to 8000 h operation

Derating





TESTS AND REQUIREMENTS

All executed tests are carried out in accordance with the following specifications:

- EN 60115-1, generic specification
- EN 60115-8, sectional specification
- EN 140401-802, detail specification
- IEC 60068-2-xx, test methods

The parameters stated in the Test Procedures and Requirements table are based on the required tests and permitted limits of EN 140401-802. The table presents only the most important tests, for the full test schedule refer to the documents listed above. However, some additional tests and a number of improvements against those minimum requirements have been included.

The testing also covers most of the requirements specified by EIA/IS-703 and JIS-C-5201-1.

The tests are carried out under standard atmospheric conditions in accordance with IEC 60068-1, 4.3, whereupon the following values are applied:

- Temperature: 15 °C to 35 °C
- Relative humidity: 25 % to 75 %
- Air pressure: 86 kPa to 106 kPa (860 mbar to 1060 mbar).

A climatic category LCT / UCT / 56 is applied, defined by the lower category temperature (LCT), the upper category temperature (UCT), and the duration of exposure in the damp heat, steady state test (56 days).

The components are mounted for testing on boards in accordance with EN 60115-8, 2.4.2 unless otherwise specified.

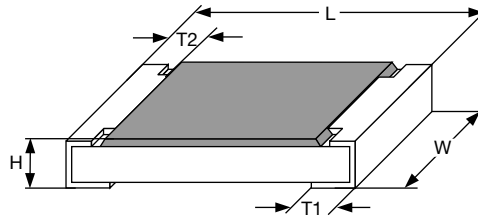
TEST PROCEDURES AND REQUIREMENTS					
EN 60115-1 CLAUSE	IEC 60068-2 (1) TEST METHOD	TEST	PROCEDURE	REQUIREMENTS PERMISSIBLE CHANGE (ΔR)	
				SIZE 0402	SIZE 0603 TO 2512
			Stability for product types:	STABILITY CLASS 2 OR BETTER	
			RCA	1 Ω to 10 M Ω	
6.1	-	Measurements of resistance and tolerance	-	$\pm 5\%$; $\pm 1\%$; $\pm 0.5\%$	
6.2	-	Temperature coefficient of resistance	(20 / -55 / 20) °C and (20 / 155 / 20) °C	± 200 ppm/K; ± 100 ppm/K; ± 50 ppm/K	
7.1	-	Endurance at rated temperature 70 °C	$U = \sqrt{P_{70} \times R} \leq U_{max.}$; 1.5 h on; 0.5 h off 70 °C; 1000 h	$\pm (1\% R + 0.05 \Omega)$	$\pm (0.5\% R + 0.05 \Omega)$
7.3	-	Endurance at maximum temperature	155 °C, 1000 h	$\pm (0.5\% R + 0.05 \Omega)$	
10.4	78 (Cab)	Damp heat, steady state	(40 \pm 2) °C; (93 \pm 3) % RH; 56 days	$\pm (1\% R + 0.05 \Omega)$	$\pm (0.5\% R + 0.05 \Omega)$
10.5	67 (Cy)	Damp heat, steady state, accelerated	(85 \pm 2) °C; (85 \pm 5) % RH; $U = \sqrt{0.1 \times P_{85} \times R}$; $U \leq 100$ V; 1000 h	$\pm (1\% R + 0.05 \Omega)$	
10.3	-	Climatic sequence:	-	$\pm (1\% R + 0.05 \Omega)$	
10.3.4.2	2 (Ba)	Dry heat	125 °C; 16 h		
10.3.4.3	30 (Db)	Damp heat, cyclic	55 °C; $\geq 90\%$ RH; 24 h; 1 cycle		
10.3.4.4	1 (Ab)	Cold	-55 °C; 2 h		
10.3.4.5	13 (M)	Low air pressure	1 kPa; 1 h; (25 \pm 10) °C 55 °C; $> 90\%$ RH		
10.3.4.6	30 (Db)	Damp heat, cyclic	24 h; 5 cycles		
10.3.4.7	-	DC load	$U = \sqrt{P_{70} \times R} \leq U_{max.}$; 1 min		
-	1 (Aa)	Cold	-55 °C; 2 h	$\pm (0.25\% R + 0.05 \Omega)$	
10.1	14 (Na)	Rapid change of temperature	30 min at -55 °C and 30 min at 125 °C; 1000 cycles	$\pm (1\% R + 0.05 \Omega)$	
8.1	-	Short-term overload	$U = 2.5 \times \sqrt{P_{70} \times R} \leq 2 \times U_{max.}$; whichever is the less severe; 5 s	$\pm (2\% R + 0.05 \Omega)$	



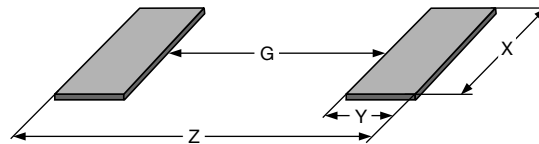
TEST PROCEDURES AND REQUIREMENTS					
EN 60115-1 CLAUSE	IEC 60068-2 (1) TEST METHOD	TEST	PROCEDURE	REQUIREMENTS PERMISSIBLE CHANGE (ΔR)	
				SIZE 0402	SIZE 0603 TO 2512
			Stability for product types:	STABILITY CLASS 2 OR BETTER	
			RCA	1 Ω to 10 M Ω	
8.2	-	Single pulse high voltage overload	Severity no. 4: $U = 10 \times \sqrt{P_{70}} \times R$ or $U \leq 2 \times U_{max.}$; whichever is the less severe 10 pulses 10 μ s / 700 μ s	$\pm (1 \% R + 0.05 \Omega)$	
8.4	-	Periodic electric overload	$U = \sqrt{15 \times P_{70} \times R} \leq 2 \times U_{max.}$; whichever is the less severe; 0.1 s on; 2.5 s off; 1000 cycles	$\pm (1 \% R + 0.05 \Omega)$	
8.5	-	Electrostatic discharge (human body model)	IEC 61340-3-1 (1); 3 pos. + 3 neg. discharges; ESD voltage according to the size	$\pm (1 \% R + 0.05 \Omega)$	
9.11	6 (Fc)	Vibration	Endurance by sweeping; 10 Hz to 2000 Hz; no resonance; amplitude ≤ 1.5 mm or ≤ 200 m/s ² ; 7.5 h	$\pm (0.25 \% R + 0.05 \Omega)$	
11.1	58 (Td)	Solderability	Solder bath method; Sn60Pb40 non-activated flux; (235 \pm 5) $^{\circ}$ C; (2 \pm 0.2) s	Good tinning (≥ 95 % covered) no visible damage	
			Solder bath method; Sn96.5Ag3Cu0.5 or Sn99.3Cu0.7 non-activated flux; (245 \pm 5) $^{\circ}$ C or (250 \pm 5) $^{\circ}$ C (3 \pm 0.3) s		
11.2	58 (Td)	Resistance to soldering heat	Solder bath method (260 \pm 5) $^{\circ}$ C; (10 \pm 1) s	$\pm (0.25 \% R + 0.05 \Omega)$	
11.3	45 (XA)	Component solvent resistance	Isopropyl alcohol; +50 $^{\circ}$ C; method 2	No visible damage	
9.7	21 (Ue ₃)	Shear (adhesion)	RCA0402 and RCA0603: 9 N RCA0805 to RCA2512: 17.7 N	No visible damage	
9.8	21 (Ue ₁)	Substrate bending	Depth 2 mm; 3 times	$\pm (0.25 \% R + 0.05 \Omega)$ no visible damage, no open circuit in bent position	
12.2	-	Voltage proof	$U = 1.4 \times U_{ins.}$; 60 s	No flashover or breakdown	
12.4	-	Flammability, needle flame test	IEC 60695-11-5 (1); 10 s	No burning after 30 s	

Note

(1) The quoted IEC standards are also released as EN standards with the same number and identical contents

DIMENSIONS


DIMENSIONS AND MASS						
TYPE / SIZE	L (mm)	W (mm)	H (mm)	T1 (mm)	T2 (mm)	MASS (mg)
RCA0402	1.0 ± 0.05	0.5 ± 0.05	0.35 ± 0.05	0.25 ± 0.10	0.2 ± 0.10	0.65
RCA0603	1.55 + 0.10 / - 0.05	0.85 ± 0.1	0.45 ± 0.05	0.3 ± 0.20	0.3 ± 0.20	2
RCA0805	2.0 + 0.20 / - 0.10	1.25 ± 0.15	0.5 ± 0.10	0.3 + 0.20 / - 0.10	0.3 ± 0.20	5.5
RCA1206	3.2 + 0.10 / - 0.20	1.6 ± 0.15	0.55 ± 0.05	0.45 ± 0.20	0.4 ± 0.20	10
RCA1210	3.2 ± 0.20	2.5 ± 0.20	0.55 ± 0.05	0.45 ± 0.20	0.4 ± 0.20	16
RCA1218	3.2 + 0.10 / - 0.20	4.6 ± 0.15	0.55 ± 0.05	0.45 ± 0.20	0.4 ± 0.20	29.5
RCA2010	5.0 ± 0.15	2.5 ± 0.15	0.6 ± 0.10	0.6 ± 0.20	0.6 ± 0.20	25.5
RCA2512	6.3 ± 0.20	3.15 ± 0.15	0.6 ± 0.10	0.6 ± 0.20	0.6 ± 0.20	40.5

SOLDER PAD DIMENSIONS


RECOMMENDED SOLDER PAD DIMENSIONS								
TYPE / SIZE	WAVE SOLDERING				REFLOW SOLDERING			
	G (mm)	Y (mm)	X (mm)	Z (mm)	G (mm)	Y (mm)	X (mm)	Z (mm)
RCA0402	-	-	-	-	0.45	0.60	0.60	1.65
RCA0603	0.65	1.10	1.25	2.85	0.75	0.75	1.00	2.25
RCA0805	0.90	1.30	1.60	3.50	1.00	0.95	1.45	2.90
RCA1206	1.40	1.40	1.95	4.20	1.50	1.05	1.80	3.60
RCA1210	1.80	1.45	2.95	4.70	1.70	1.10	2.80	3.90
RCA1218	1.80	1.30	5.10	4.40	1.90	1.10	4.90	4.10
RCA2010	3.40	1.65	2.85	6.70	3.50	1.45	2.80	6.40
RCA2512	4.60	1.60	3.65	7.80	4.75	1.45	3.50	7.65

Notes

- The given solder pad dimensions reflect the considerations for board design and assembly as outlined e.g in standards IEC 61188-5-x ⁽¹⁾ or in publication IPC-7351.
Still, the given solder pad dimensions will be found adequate for most general applications
- ⁽¹⁾ The quoted IEC standards are also released as EN standards with the same number and identical contents



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